

COMMONWEALTH AGRICULTURAL BUREAUX
COMMONWEALTH BUREAU OF BIOLOGICAL CONTROL

A CATALOGUE
OF
THE PARASITES AND PREDATORS OF INSECT PESTS

PREPARED UNDER THE DIRECTION OF

W. R. THOMPSON, F. R. S.

BY THE COMMONWEALTH BUREAU OF BIOLOGICAL CONTROL

SECTION 1
PARASITE HOST CATALOGUE

PART 11
PARASITES OF THE NEUROPTERA, ODONATA, ORTHOPTERA,
PSOCOPTERA, SIPHONAPTERA AND THYSANOPTERA



OTTAWA, ONT., CANADA
THE COMMONWEALTH BUREAU OF BIOLOGICAL CONTROL
1950

I N T R O D U C T I O N

Part 11 of Section I of the Parasite Catalogue lists the insect parasites of species of the Orders Neuroptera, Odonata, Orthoptera, Psocoptera, Siphonaptera and Thysanoptera. The host insects are arranged under genera in lexicographical order. Under each host species, its parasites are listed in the same manner. The parasites cited in the complete text are indexed according to the system followed with the host species, in a single list.

The records listed have been taken in the main from the Review of Applied Entomology, Series A and B, Vols. 1-25 inclusive. But, especially in the later volumes of that Review, papers giving lists of parasites and predators have not infrequently been mentioned by title only. In those cases the original publications have been referred to and information taken direct from them; also some lists published during the same period, but not noticed by the Review, have been drawn upon. Some unpublished rearing records, communicated by Sir Guy Marshall and the British Museum (Natural History) have also been inserted.

The records were assembled by Mr. R. C. Jeffery, assisted by Miss Mariana Thompson and checked by Dr. G. C. Ulllyett. The plates were typed by Miss Mary Truaisch.

This part of the Catalogue gives the following information:

1. Name, Family and Order of the hosts.
2. Name, Family and Order of the parasites.
3. Country of record and bibliographical reference.

References to the Review of Applied Entomology are abbreviated to the Series letter, Volume and page number; the names of the insects cited may appear either on the page given or on subsequent pages of the abstract commencing on the page given.

References to the Review of Applied Entomology are arranged in the following manner:

1. Records are grouped under geographical areas which have been arranged in the following order: Europe, Asia, America, Australasia, Africa; but these names are not given in the text unless used in the source as geographical indications. Thus, if a species is recorded from "Belgium" and "France" but not from "Europe", only "Belgium" and "France" are given. If "Europe" is given, this is because it is specifically mentioned in the source.
2. References to each geographical unit mentioned are grouped after it in brackets, the sets of references for the various areas being separated by a colon, thus:

Austria (A, xi, 24): Belgium (B, ii, 9).

3. When a species is mentioned in several geographical areas, the reference is usually repeated for each of these areas.

4. Within each set of brackets following a geographical name, the references are grouped under the Series letters and Volume numbers, thus:

(A, vi, 25, 45; xiv, 102: B, xx, 21; xxiv, 75, 93).

5. When the original paper has been consulted, the name of the author is inserted before the reference, thus:

(Smith, A, iii, 45; Jones, iv, 102; vii, 85, Brown, 98).

In such cases, if the Series letter has already been given, it is omitted and if the Volume number has been given, this is omitted.

In order to facilitate the use of the Catalogue an index has been provided, listing the parasites cited under genera, with generic and specific names in lexicographical order.

The classification of the insects listed, follows that given in the Zoological Record - Part Insecta.

The problem of nomenclature, in the Parasite Catalogue, has proved very difficult. The records have been taken from publications extending over a long period during which many changes in names have been made. Even in publications appearing at the same time, the same species may appear under different names owing to divergencies between the various schools of systematists. In many groups, and particularly in the parasitic forms, a thorough and accurate revision of the nomenclature is impossible because adequate revisions of the species, over the whole range of distribution, have never been made. The value of nomenclatorial revision is, at best, merely transitory, because changes in names are continually being made by systematic workers.

For these and other reasons, the most satisfactory method in bibliographical compilations of this type is to record the names as they appear in the original references.

The Editors of the Review of Applied Entomology, on which this Catalogue is largely based have, however, always attempted to collate information about a single insect under a single name, citing, in brackets, names used by authors where they differ and since the names used in the Review were adopted in the earlier stages of work on the Catalogue, the nomenclature of the Review has usually been followed. But as many changes in names have been made since the earlier volumes of the Review were published and no index of synonyms is available and as many names in the Catalogue have been taken from sources other than the Review, a considerable amount of revision has been necessary in order to link up citations of the same species under different names and eliminate accidental errors of various kinds. The bulk of this difficult and tedious work has been carried out by the officers of the Division of Insect Identification of the United States Bureau of Entomology, under the direction of Mr. C.F.W. Muesebeck, with the kind permission of Dr. P. N. Annand, Chief of the Bureau of Entomology. The officers of the Systematic Unit of the Division of Entomology in Ottawa, have also cooperated in this work. The great majority of the changes suggested by the revisors have been accepted; final responsibility for the names selected rests, however, with the Editor.

The names adopted in the Catalogue are believed to be those current or recently current among entomologists in some part of the world at the time of publication. Their use must not be taken to imply on the part of the compilers or the Editor, the view that they are valid under the International Code of Nomenclature, or any judgment on controversial questions. However, an effort has been made to eliminate names or practices considered by the experts consulted to be unorthodox, even when this has necessitated some departure from uniformity in the work as a whole.

On the other hand, all the synonyms known to exist in the Catalogue and its sources have been connected in each part. Owing to the origin and arrangement of the material, the method of indicating synonymy is necessarily somewhat complex, but may be summarised as follows:

1. Names of host insects treated as invalid synonyms are given in the text with a cross-reference to the name adopted, e.g.:

Melanoplus plumbeus Dodge - See M. femur-rubrum DeG.

In such cases all parasite records are entered under the name adopted: in this case, Melanoplus femur-rubrum DeG.

2. The cross-references from the names adopted to the names treated as invalid synonyms but used in the sources (Review of Applied Entomology or original papers), are given in a list entitled: Host Synonymy not shown in the Text, e.g.:

Melanoplus femur-rubrum DeG. = (M. plumbeus Dodge)

3. Names of host insects regarded as synonyms but all entered with lists of parasites, in the text of the Catalogue, are connected by the words "See also" in the list of Host Synonyms. All names known to have been used to designate the species listed, in the Catalogue or the sources, are entered in the marginal column of the list of Host Synonyms, with the appropriate cross-references.

4. The indication of parasite synonymy in the text of the Parasite Host and Predator Host Catalogues, is impracticable. It has, therefore, been inserted in the Index of Parasites and Predators prepared for each part.

5. Names of parasites and predators treated as invalid synonyms but used in the sources (Review of Applied Entomology or original papers) are connected with the names adopted in the Index of Parasites or Predators, e.g.:

Megaselia scalaris Lw. = (Aphiochaeta scalaris Lw.), 19
(Aphiochaeta scalaris Lw.) = Megaselia scalaris Lw.

the page references being entered under the name adopted, and the name treated as a synonym being entered in brackets.

All names known to have been used to designate the species listed in the Catalogue or the sources, are entered in the marginal column of the Index of Parasites or Predators, with the appropriate cross-references.

6. Names of parasites and predators regarded as synonyms but occurring in the

text of the Catalogue, under the same or different hosts, are connected by the words "see also" in the Index of Parasites or Predators; the page references being, in each case, to the species mentioned in the marginal column.

7. Parasite or predator synonyms occurring in different parts of the Parasite and Predator Host Catalogues (Section I and III) will be connected in the Parasite and Predator Catalogues (Section II and IV).

The lists of Host Synonyms and the Indexes of Parasites or Predators should always be consulted in connection with the references mentioned in the Catalogue.

This Catalogue is merely a guide to the recorded relationships of parasites and predators, compiled from the literature. Entomologists should not accept the records without consulting the original papers because their factual value is variable and uncertain. Indeed, some of the records included are, in the opinion of the experts consulted and of the Editor, definitely wrong. However, the exclusion of such references would not be justified, since the object of a bibliography is simply to put the user in contact with the sources.

All those connected with the preparation of the Catalogue realise that it still contains errors. It is hoped that those using it will list and send to the Editor all mistakes discovered, so that corrections may be sent out as the successive parts are issued.

W. R. Thompson,
Ottawa, November, 1950.

NEUROPTERA

(N.B. Where the original paper has been consulted, the author's name is given in the list of references).

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Boriomyia nervosa F - See Kimminsia betulina Strom.

Chauliodes rastricornis Ramb.

Trichogramma minutum Riley (Hym Trichogrammid) - ? (Martin, A, xvi, 441).

Chrysopa sp.

Chrysopophagus compressicornis Ashm. (Hym. Encyrtid) - U.S.A. (A, iii, 25).

Helorus sp. (Hym. Proctotrupid) - U.S.A. (A, iii, 25).

Helorus anomalipes Panz. (Hym. Proctotrupid) - France (A, ii, 90).

Isodromus axillaris Timb. (Hym. Encyrtid) - Japan (A, xx, 247)

Isodromus iceryae How. (Hym Encyrtid) - U.S.A. (A, iii, 25; Timberlake, vii, 523).

Isodromus niger Ashm. (Hym. Encyrtid) - U.S.A. (Timberlake, A, vii, 523).

Isodromus puncticeps How. (Hym Encyrtid) - U.S.A. (Timberlake, A, vii, 523)

Microgaster perlae Doum (Hym Braconid) - France (A, ii, 90).

Otacustes aestivalis Grav (Hym Ichneumonid) - France (A, ii, 90)

Otacustes crassus chrysopae Ashm (Hym Ichneumonid) - U.S.A. (A, iii, 25)

Otacustes crassus patruelis Cush (Hym Ichneumonid) - U.S.A. (A, vii, 376).

Perilampus sp (Hym. Perilampid) - U.S.A. (A, iii, 25)

Perilampus chrysopae Crwf (Hym Perilampid) - N. America (Smulyan, A, xxv, 119)

Perilampus hyalinus Say (Hym Perilampid) - U.S.A. (A, v, 130)

Telenomus acrobates Giard (Hym Scelionid) - France (A, ii, 90)

Telenomus chrysopae Vass. (Hym Scelionid) - Russia (A, iii, 439)

Tetrastichus sp (Hym. Eulophid) - U.S.A. (A, iii, 25).

Trichogramma minutum Riley (Hym Trichogrammid) - Canada (A, xxv, 440):
? (Martin, A, xvi, 441).

Chrysopa albicornis Fitch - See C. oculata Say

Chrysopa boninensis Okam.

Hemiteles sp (Hym. Ichneumonid) - Japan (A, xxv, 304).

Isodromus axillaris Timb. (Hym. Encyrtid) - Japan (Ishii, A, xviii, 258; xx, 458; xxv, 304).

Chrysopa californica Coq. - See C. plorabunda Fitch

Chrysopa carnea Stern.

Helorus anomalipes Panz. (Hym Proctotrupid) - France (A, xi, 295).

Microgaster perlae Doum (Hym Braconid) - France (A, xi, 295).

Otacustes aestivalis Grav (Hym Ichneumonid) - France (A, xi, 295).

Telenomus acrobates Giard (Hym Scelionid) - France (A, xi, 295).

Chrysopa harrisii Fitch

Otacustes crassus chrysopae Ashm (Hym Ichneumonid) - U.S.A. (Miller, A, xviii, 371).

Chrysopa lateralis Guér.Arachnohaga sp. (Hym. Eupelmidae) - U.S.A. (Smith, A, xi, 385).Horismenus sp. (Hym. Eulophidae) - U.S.A. (Smith, A, xi, 385).Isodromus atriventris Ashm. (Hym. Encyrtidae) - U.S.A. (Smith, A, xi, 385).Isodromus iceryae How. (Hym. Encyrtidae) - U.S.A. (Smith, A, xi, 385).Otacustes bicolor Cush. (Hym. Ichneumonidae) - U.S.A. (A, xii, 137).Chrysopa microphya McLach.Gelis tenellus Say (Hym. Ichneumonidae) - Hawaii (A, vi, 351).Chrysopa nigricornis Burm.Gelis tenellus Say (Hym. Ichneumonidae) - U.S.A. (Smith, A, xi, 385).Otacustes crassus crassus Prov. (Hym. Ichneumonidae) - Canada (A, xxv, 440).Chrysopa oculata SayHelorus chrysopae (Hym. Proctotrupidae) - U.S.A. (Smith, A, xi, 385).Trichogramma minutum Riley (Hym. Trichogrammidae) - Canada (A, xix, 527).Chrysopa plorabunda FitchGelis tenellus Say (Hym. Ichneumonidae) - Canada (A, xxv, 440).Otacustes crassus crassus Prov. (Hym. Ichneumonidae) - Canada (A, xxv, 440).Perilampus chrysopae Crw. (Hym. Perilampidae) - N. America (Smulyan, A, xxv, 119).Perilampus chrysopae laevicephalus Crw. (Hym. Perilampidae) - U.S.A. (A, v, 163).Chrysopa prasina Burm.Otacustes aestivalis Grav. (Hym. Ichneumonidae) - Europe (Goidanich, A, xx, 445).Chrysopa rufilabris Burm.Chrysopophagus compressicornis Ashm. (Hym. Encyrtidae) - U.S.A. (A, v, 242).Dibrachys cavus Walk. (Hym. Pteromalidae) - U.S.A. (Smith, A, xi, 385).Gelis tenellus Say (Hym. Ichneumonidae) - Canada (A, xxv, 440); U.S.A. (Smith, A, xi, 385).Helorus sp. (Hym. Proctotrupidae) - U.S.A. (A, v, 242).Isodromus iceryae How. (Hym. Encyrtidae) - U.S.A. (A, v, 242).Otacustes crassus chrysopae Ashm. (Hym. Ichneumonidae) - U.S.A. (A, v, 242).Otacustes crassus crassus Prov. (Hym. Ichneumonidae) - Canada (A, xxv, 440).Perilampus chrysopae Crw. (Hym. Perilampidae) - U.S.A. (A, v, 242; Smith, xi, 385).Telenomus chrysopae Ashm. (Hym. Scelionidae) - U.S.A. (A, v, 242).Tetrastichus chrysopae Crw. (Hym. Eulophidae) - U.S.A. (A, v, 242; Smith, xi, 385).Chrysopa septempunctata cognata McLach.Microtorus kichijoi Uchida (Hym. Ichneumonidae) - Japan (A, xxii, 48).Chrysopa vulgaris Schneider - See Chrysopa carnea Stern.Conwentzia sp.Calliceras sp. (Hym. Calliceratidae) - Britain (A, xii, 284).Lygocerus sp. (Hym. Calliceratidae) - Britain (A, xii, 284).Hemerobius nervosus F. - See Kimminsia betulina Strom.

Hemerobius stigma Steph.

Hemiteles areator Panz. (Hym. Ichneumonid) - England (Haines, Trans. Ent. Soc. S. England, vii, 12).

Kimminsia betulina Strom.

Aegilips sp. (Hym. Cynipid) - Sweden (A, xiv, 611).

Aegilips fumipennis Westw. (Hym. Cynipid) - Britain (A, xii, 226).

Anacharis sp. (Hym. Cynipid) - Sweden (A, xiv, 611).

Anacharis ensifera Walk. (Hym. Cynipid) - Britain (A, xii, 226).

Anacharis eucharcoides Dal. (Hym. Cynipid) - Britain (A, xii, 226).

Raphidia sp.

Pyracmon austriacus Tschek (Hym. Ichneumonid) - England (Lyle, Ent. Month. Mag., lx, 40, 1924).

Raphidia notata F.

Pyracmon montanus Htg (Hym. Ichneumonid) - England (Haines, Trans. Ent. Soc. S. England, vii, 29; Lyle, Ent. Month. Mag., lx, 40, 1924).

Semblis lutarius L. - See Sialis lutaria L.Sialis infumata Newm.

Trichogramma minutum Riley (Hym. Trichogrammid) - U.S.A. (A, xvi, 441).

Sialis lutaria L.

Trichogramma evanescens Westw. (Hym. Trichogrammid) - Europe (Girault, A, ii, 310): Germany (Hase, A, xiii, 587): Sweden (Tragardh, A, xii, 98).

Symphorobius angustus Banks

Perilampus chrysopae Crwf. (Hym. Perilampid) - N. America (Smulyan, A, xxv, 119).

Symphorobius californicus Banks

Isodromus iceryae How. (Hym. Encyrtid) - U.S.A. (A, v, 266).

Pachyneuron sp. (Hym. Pteromalid) - U.S.A. (A, v, 266).

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(N.B. Where the original paper has been consulted, the author's name is given in the list of references).

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Aeschna - See Aeshna

Aeshna sp.

Prestwichia aquatica Lubb. (Hym. Trichogrammid) - Russia (A, ix, 555; Meier, xviii, 131).

Prestwichia solitaria Ruschka (Hym. Trichogrammid) - Russia (A, v, 511).

Aeshna brevistyla Ramb.

Mymarid sp. (Hym.) - W. Australia (A, xxiii, 559).

Agrion sp.

Anagrus subfuscus Först. (Hym. Mymarid) - Russia (Meier, A, xviii, 131).

Anaphes dytiscidarum Rim.-Kor. (Hym. Mymarid) - Russia (A, ix, 555).

Caraphractus cinctus Walk. (Hym. Mymarid) - Europe (Girault, A, ii, 310).

Prestwichia aquatica Lubb. (Hym. Trichogrammid) - Russia (A, ix, 555).

Prestwichia solitaria Ruschka (Hym. Trichogrammid) - Russia (Meier, A, xviii, 131).

Calopteryx - See Agrion

Lestes sp.

Anagrus brocheri Schulz (Hym. Mymarid) - Europe (Girault, A, ii, 310).

Anagrus subfuscus Först. (Hym. Mymarid) - Russia (Meier, A, xviii, 131).

Anaphes dytiscidarum Rim.-Kor. (Hym. Mymarid) - Russia (A, ix, 555; Meier, xviii, 131).

Caraphractus cinctus Walk. (Hym. Mymarid) - Russia (Meier, A, xviii, 131).

Caraphractus reductus Rim.-Kor. (Hym. Mymarid) - Russia (Meier, A, xviii, 131).

Prestwichia aquatica Lubb. (Hym. Trichogrammid) - Russia (A, ix, 555).

Prestwichia solitaria Ruschka (Hym. Trichogrammid) - Russia (A, v, 511; Meier, xviii, 131).

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O R T H O P T E R A

(N.B. Where the original paper has been consulted, the author's name is given in the list of references).

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Acheta assimilis F. (Gryllid)

Ceratoteleia marlattii Ashm. (Hym. Scelionid) - U.S.A. (A, ix, 237; x, 367; xiii, 89; xiv, 284; xxiv, 364).

Exoristoides johnsoni Coq. (Dipt. Tachinid) - U.S.A. (A, x, 367; xiii, 89; xx, 568).

Paridris sp. (Hym. Scelionid) - U.S.A. (A, ix, 237).

Paridris brevipennis Fouts (Hym. Scelionid) - U.S.A. (A, viii, 295; x, 367; xiii, 89; xxiv, 364).

Sarcophaga kellyi Aldr. (Dipt. Sarcophagid) - U.S.A. (A, x, 59; xiv, 284).

ACRIDID sp.

Agria latifrons Fall. (Dipt. Sarcophagid) - Palestine (Records from British Museum).

Boacemyia errans Wd. (Dipt. Tachinid) - Malaya (Corbett & Miller, A, xxi, 676).

Sarcophaga hunteri Hough (Dipt. Sarcophagid) - Canada (Criddle, A, xix, 473).

Sarcophaga kellyi Aldr. (Dipt. Sarcophagid) - Canada (A, xix, 473; B, ix, 203).

Systoechus solitus Walk. (Dipt. Bombyliid) - Canada (Criddle, A, xix, 473).

Systoechus vulgaris Lw. (Dipt. Bombyliid) - Canada (A, xix, 473).

Acridium aegyptium L. - See Anacridium

Acridium melanocorne Serv. - See Valanga nigricornis Burm.

Acridium nigricornis Burm. - See Valanga

Aeropus sibiricus L. (Acridid)

Scelio vulgaris Kieff. (Hym. Scelionid) - Russia (A, xxv, 62).

Systoechus sp. (Dipt. Bombyliid) - Russia (A, xxii, 205).

Allacta similis Sauss. (Blattid)

Solendenia picticornis Cam. (Hym. Eupelmid) - Hawaii (Swezey, A, xviii, 255).

Anabrus longipes Caud. (Tettigoniid)

Sarcophaga sarracenioides Aldr. (Dipt. Sarcophagid) - Canada (A, xiii, 195).

Anabrus simplex Hald. (Tettigoniid)

Sparasion pilosum Ashm. (Hym. Scelionid) - U.S.A. (A, xvii, 666; Cowan, xviii, 284).

Anacridium aegyptium L. (Acridid)

Acemys acuticornis Mg. (Dipt. Tachinid) - Europe (Baer, A, ix, 61, 252): Tunisia (A, xxv, 9).

Acemys calloti Seguy (Dipt. Tachinid) - Tunisia (A, xxv, 9).

Blaesoxipha unguolata Pand. (Dipt. Sarcophagid) - Europe (Baer, A, ix, 61, 252).

Sarcophaga clathrata Mg. (Dipt. Sarcophagid) - Europe (Baer, A, ix, 61, 252): Algeria (Grasse, A, xii, 376).

Anacridium moestum Serv. (Acridid)

Blaesoxipha filipjevi Rohd. (Dipt. Sarcophagid) - Sudan (A, xxii, 76).

Blaesoxipha filipjevi aequatorialis Rohd. (Dipt. Sarcophagid) - Tanganyika (A, xix, 27).

Anacridium moestum melanorhodon Walk. (Acridid)

Sarcophagid sp. (Dipt.) - Sudan (Johnston, A, xx, 335).

Angaracris barabensis Pall. (Acridid)

Sarcophaga sp. (Dipt. Sarcophagid) - Russia (Reikhardt, A, xi, 510).

Arcyptera sp. (Acridid)

Anthrax oophagus Param. (Dipt. Bombyliid) - C. Asia (A, xxiv, 595).

Arcyptera flavicosta F.W. - See Pararcyptera microptera F.W.

Arcyptera microptera F.W. - See Pararcyptera

Arcyptera microptera microptera F.W. - See Pararcyptera

Austroicetes jungi Branc. - See Chortoicetes jungi Branc.

Banza parvula Walk. (Tettigoniid)

Eupelmus axestops Perk. (Hym. Eupelmid) - Hawaii (Swezey, A, xviii, 255).

Blatta sp. (Blattid)

Tetrastichus hagenowii Ratz. (Hym. Eulophid) - U.S.A (Gahan, A, iii, 151).

Blatta americana L. - See Periplaneta

Blatta germanica L. - See Blattella

Blatta lapponicus L. - See Ectobius lapponicus L.

Blatta orientalis L. (Blattid)

Brachygaster minuta Ol. (Hym. Evaniid) - Hungary (B, xi, 87).

Evania appendigaster L. (Hym. Evaniid) - Europe (Girault, A, ii, 310): Hungary (B, xi, 87): Canada (A, ix, 100).

Evania dimidiata F. (Hym. Evaniid) - Egypt (A, ii, 504).

Evania laevigata Latr. (Hym. Evaniid) - Europe (Girault, A, ii, 310): Egypt (A, ii, 504).

Evania punctata Brul. (Hym. Evaniid) - Europe (Fahringer, A, x, 497).

Systellogaster ovivora Gahan (Hym. Pteromalid) - U.S.A. (A, v, 404).

Tetrastichus hagenowii Ratz. (Hym. Eulophid) - Europe (Girault, A, ii, 310).

Blattella germanica L. (Blattid)

Brachygaster minuta Ol. (Hym. Evaniid) - Germany (B, x, 37): Hungary (B, xi, 87).

Evania appendigaster L. (Hym. Evaniid) - Europe (Girault, A, ii, 310): Hungary (B, xi, 87).

Evania punctata Brul. (Hym. Evaniid) - Europe (Fahringer, A, x, 497).

Tetrastichus hagenowii Ratz (Hym. Eulophid) - Europe (Girault, A, ii, 310).

BLATTID sp.

Anastatus blattidarum Ferr. (Hym. Eupelmid) - India (A, xxv, 379).

Bryodema barabense Pall. - See Angaracris barabensis Pall.

Bryodema tuberculatum F. (Acridid)

Sarcophaga sp. (Dipt. Sarcophagid) - Russia (Reikhardt, A, xi, 510).

Calliptamus sp. (Acridid)

Anastoechus nitidulus F. (Dipt. Bombyliid) - C. Asia (A, xxiv, 595).

Callostoma desertorum Lw. (Dipt. Bombyliid) - C. Asia (A, xxiv, 595).

Cytherea setosa Param. (Dipt. Bombyliid) - C. Asia (A, xxiv, 595).

Calliptamus italicus L. (Acridid)

Anastoechus nitidulus F. (Dipt. Bombyliid) - Ukraine (A, xv, 12).

Anthrax jazykovi Param. (Dipt. Bombyliid) - C. Asia (A, xxiv, 595).

Blaesoxipha sp. (Dipt. Sarcophagid) - Montenegro (A, xiii, 98).

Blaesoxipha lineata Fall. (Dipt. Sarcophagid) - Italy (A, xxii, 606):

France, Italy, Russia, Sardinia, Algeria (Grasse, A, xii, 376).

Cytherea infuscata Mg. (Dipt. Bombyliid) - Italy (A, xxii, 606).

Cytherea obscura F. (Dipt. Bombyliid) - Italy (A, ix, 418).

Systoechus sulphureus Mikan (Dipt. Bombyliid) - Italy (A, ix, 418).

Calliptamus spretus Walsh - See Melanoplus mexicanus mexicanus Sauss.

Calliptamus turanicus Tarb. (Acridid)

Anthrax oophagus Param. (Dipt. Bombyliid) - C. Asia (A, xxiv, 595).

Caloptenus italicus L. - See Calliptamus

Camnula pellucida Scudder (Acridid)

Aphoebantus hirtus Coq. (Dipt. Bombyliid) - U.S.A. (A, xxiv, 538).

Opsophyto opifera Coq. (Dipt. Sarcophagid) - Canada (A, xiii, 195).

Sarcophaga hunteri Hough (Dipt. Sarcophagid) - Canada (A, xiii, 195).

Sarcophaga kellyi Aldr. (Dipt. Sarcophagid) - Canada (A, xxi, 419).

Scelio calopteni Riley (Hym. Scelionid) - Canada (A, xiii, 576).

Systoechus vulgaris Lw. (Dipt. Bombyliid) - Canada (Treherne & Buckell, A, xiii, 195, 576; xxi, 419).

Celes variabilis Pall. (Acridid)

Blaesoxipha lineata Fall. (Dipt. Sarcophagid) - Russia (A, xiv, 107).

Chorthippus albomarginatus DeG. (Acridid)

Scelio vulgaris Kieff. (Hym. Scelionid) - Russia (A, xxv, 62).

Systoechus sp. (Dipt. Bombyliid) - Russia (A, xxii, 205).

Chorthippus apricarius L. (Acridid)

Siphonella palposa Fall. (Dipt. Chloropid) - Russia (A, xii, 22).

Chorthippus bicolor Charp. (Acridid)

Acemya acuticornis Mg. (Dipt. Tachinid) - France (A, xxv, 705).

Sarcophaga tuberosa Pand. (Dipt. Sarcophagid) - France (A, xxiii, 391).

Chorthippus biguttulus L. (Acridid)

Acemya acuticornis Mg. (Dipt. Tachinid) - France (A, xxv, 705).

Chorthippus dorsatus Zett. (Acridid)

Acemya acuticornis Mg. (Dipt. Tachinid) - France (A, xxv, 705).

Chorthippus mollis Charp. (Acridid)

Acemya acuticornis Mg. (Dipt. Tachinid) - France (A, xxv, 705).

Chorthippus parallelus Zett. (Acridid)

Meigenia mutabilis Fall. (Dipt. Tachinid) - Europe (Baer, A, ix, 61, 252).

Chorthippus scalaris F.W. - See Stauroderus

Chortoicetes jungi Branc. (Acridid)

Bombyliid sp. (Dipt.) - W. Australia (A, xxv, 296).

Chortoicetes terminifera Walk. (Acridid)

Helicobia australis Johnston & Tiegs (Dipt. Sarcophagid) - Australia (A, xxv, 633).

Opsophyto pachytyli Skuse (Dipt. Sarcophagid) - Australia (A, xxv, 633).

Scelio bipartitus Kieff. (Hym. Scelionid) - Australia (A, xxv, 633).

Scelio chortoicetes Frogg. (Hym. Scelionid) - Australia (A, xxv, 633).

Scelio fulgidus Crwf. (Hym. Scelionid) - Australia (A, xxiv, 70, 196; xxv, 633).

Tachinid sp. (Dipt.) - Australia (A, xxiv, 196).

Chortophaga viridifasciata DeG. (Acridid)

Ceracia dentata Coq. (Dipt. Tachinid) - Canada (A, xiii, 195).

Sarcophaga cimbicis Tns. (Dipt. Sarcophagid) - U.S.A. (A, iii, 81).

Sarcophaga hunteri Hough (Dipt. Sarcophagid) - U.S.A. (A, iii, 81).

Sarcophaga kellyi Aldr. (Dipt. Sarcophagid) - U.S.A. (A, iii, 81).

Sarcophaga sarraceniae Riley (Dipt. Sarcophagid) - U.S.A. (A, iii, 81).

Chremon repentinus Rehm (Gryllid)

Leptoteleia arndti Dozier (Hym. Scelionid) - Haiti (A, xix, 417).

Chrysochraon dispar Germ. (Acridid)

Sarcophaga striata F. (Dipt. Sarcophagid) - Europe (Baer, A, ix, 61, 252).

Colemania sphenarioides Bol. (Acridid)

Lepidoscelio viatrix Brues. (Hym. Scelionid) - India (A, vi, 220): ? (A, v, 391).

Conocephalus sp. (Tettigoniid)

Centrodora speciosissima Gir. (Hym. Aphelinid) - U.S.A. (A, vii, 361).

Conocephalus longipennis

Oligosita xiphidii Ferr. (Hym. Trichogrammid) - Java (A, xiv, 622).

Conocephalus saltator Sauss. (Tettigoniid)Abella lutea Full. (Hym. Trichogrammid) - Hawaii (Swezey, A, xviii, 255).Centrodora locustarum Giard (Hym. Aphelinid) - ? (A, v, 501).Centrodora xiphidii Perk. (Hym. Aphelinid) - Br. Guiana (A, v, 501):
Hawaii (Swezey, A, xviii, 255).Cratypedes neglectus Thom. (Acridid)Ceracia dentata Coq. (Dipt. Tachinid) - Canada (A, xiii, 195).Cutilia soror Brunn. (Blattid)Evania appendigaster L. (Hym. Evaniid) - Hawaii (Swezey, A, xviii, 255).Evania sericea L. (Hym. Evaniid) - Hawaii (Swezey, A, xviii, 255).Cyrtacanthacris melanocornis Serv. - See Valanga nigricornis Burm.Cyrtacanthacris nigricornis Burm. - See ValangaCyrtacanthacris tatarica L. (Acridid)Blaesoxipha anceps Villen. (Dipt. Sarcophagid) - Italian Somaliland
(A, xviii, 450; xx, 393).Decticus albifrons F. (Tettigoniid)Blaesoxipha cochlearis Pand. (Dipt. Sarcophagid) - Algeria (A, xiii, 489).Dictyophorus reticulatus Thnb. - See Romalea microptera Beauv.Dissosteira carolina L. (Acridid)Sarcophaga kellyi Aldr. (Dipt. Sarcophagid) - U.S.A. (A, xx, 641).Dissosteira longipennis Thomas (Acridid)Sarcophaga kellyi Aldr. (Dipt. Sarcophagid) - U.S.A. (A, iv, 4).Dociostaurus sp. (Acridid)Anthrax oophagus Param. (Dipt. Bombyliid) - C. Asia (A, xxiv, 595).Callostoma desertorum Lw. (Dipt. Bombyliid) - C. Asia (A, xxiv, 595).Dociostaurus albicornis Ev. - See NotostaurusDociostaurus brevicollis Ev. (Acridid)Anastoechus nitidulus F. (Dipt. Bombyliid) - Russia (A, iii, 636).Blaesoxipha lineata Fall. (Dipt. Sarcophagid) - Russia (A, xvi, 431).Sarcophaga sp. (Dipt. Sarcophagid) - Russia (A, iii, 636).Dociostaurus kraussi Ingen. (Acridid)Anastoechus nitidulus F. (Dipt. Bombyliid) - Russia (A, iii, 636).Hemipenthes maurus L. (Dipt. Bombyliid) - Russia (A, xvi, 431).Sarcophaga sp. (Dipt. Sarcophagid) - Russia (A, iii, 636).Systoechus autumnalis Pall. (Dipt. Bombyliid) - Russia (A, xiv, 611).Dociostaurus maroccanus Thnb. (Acridid)Acemya acuticornis Mg. (Dipt. Tachinid) - Spain (Delgado de Torres, A, xix, 277).Agria latifrons Fall. (Dipt. Sarcophagid) - Spain (Delgado de Torres, A, xix, 277): Europe, Mongolia, Siberia, Turkestan (A, xvii, 398).

- Anastoechus nitidulus F. (Dipt. Bombyliid) - Italy (A, viii, 484): Russia (A, ix, 418): Spain (Delgado de Torres, A, xix, 277): Morocco (A, xix, 251; xx, 73).
- Anthrax sp. (Dipt. Bombyliid) - Sardinia (A, xxii, 329).
- Blaesoxipha sp. (Dipt. Sarcophagid) - Sardinia (A, xxii, 329).
- Blaesoxipha laticornis Mg. (Dipt. Sarcophagid) - Sardinia (A, xxii, 329).
- Blaesoxipha lineata Fall. (Dipt. Sarcophagid) - Europe (Baer, A, ix, 61, 252): Italy (A, viii, 484; xxii, 606): Montenegro (A, xiii, 98; 309, 542): Sardinia (A, xxii, 329): France, Italy, Russia, Algeria (Grasse, A, xii, 376).
- Blaesoxipha unguolata Pand. (Dipt. Sarcophagid) - Europe (Baer, A, ix, 61, 252).
- Bombylius canescens Mikan (Dipt. Bombyliid) - Sardinia (A, xxii, 329).
- Callostoma desertorum Lw. (Dipt. Bombyliid) - Russia (A, ix, 418): Turkestan (A, ii, 508).
- Cytherea armeniaca Param. (Dipt. Bombyliid) - Russia (A, xxii, 242).
- Cytherea infuscata Mg. (Dipt. Bombyliid) - Italy (A, xxii, 606).
- Spain (A, xvi, 578; xix, 277): Morocco (A, xix, 251; xx, 73).
- Cytherea obscura F. (Dipt. Bombyliid) - Italy (A, viii, 484; ix, 418; xxi, 218): Russia (A, ix, 418): Sicily (A, iii, 39): Turkestan, (A, ii, 508).
- Exoprosopa sp. (Dipt. Bombyliid) - C. Asia (A, xxiv, 596).
- Exorista larvarum L. (Dipt. Tachinid) - Spain (Navarro, A, xiv, 26: Delgado de Torres, xix, 277).
- Gymnosoma rotundata L. (Dipt. Tachinid) - Europe (Grasse, A, xii, 376).
- * Ichneumon acridicida (Hym. Ichneumonid) - Italy (Navarro, A, xiv, 26).
- Meigenia mutabilis Fall. (Dipt. Tachinid) - Spain (Delgado de Torres, A, xix, 277).
- Pterella grisea Mg. (Dipt. Sarcophagid) - Spain (Delgado de Torres, A, xix, 277).
- Sarcophaga sp. (Dipt. Sarcophagid) - Sardinia (A, xxii, 329).
- Sarcophaga affinis Fall. (Dipt. Sarcophagid) - Spain (Delgado de Torres, A, xix, 277).
- Sarcophaga carnaria L. (Dipt. Sarcophagid) - Spain (Delgado de Torres, A, xix, 277): Europe, America, Africa (Grasse, A, xii, 376).
- Sarcophaga clathrata Mg. (Dipt. Sarcophagid) - Europe (Baer, A, ix, 61, 252): Algeria (Grasse, A, xii, 376).
- Sarcophaga cruentata Mg. (Dipt. Sarcophagid) - Spain (Delgado de Torres, A, xix, 277): Algeria (Grasse, A, xii, 376).
- Sarcophaga erythrura Mg. (Dipt. Sarcophagid) - Russia (Grasse, A, xii, 376).
- Sarcophaga haemorrhoidalis Fall. (Dipt. Sarcophagid) - Spain (Delgado de Torres, A, xix, 277): Algeria, S. America (Grasse, A, xii, 376).
- Sarcophaga sinuata Mg. (Dipt. Sarcophagid) - Spain (Delgado de Torres, A, xix, 277).
- Sarcophaga striata F. (Dipt. Sarcophagid) - Europe (Baer, A, ix, 61, 252): Spain (Delgado de Torres, A, xix, 277).
- Stomorhina lunata F. (Dipt. Calliphorid) - Spain (Delgado de Torres, A, xix, 277): N. Africa (Grasse, A, xii, 376).
- Systoechus gradatus Wied. (Dipt. Bombyliid) - Spain (Delgado de Torres, A, xix, 277).
- Systoechus oreas O.S. (Dipt. Bombyliid) - Spain (Navarro, A, xiv, 26).
- Systoechus sulphureus Mikan (Dipt. Bombyliid) - Italy (A, viii, 484; ix, 418; xxi, 218; xxii, 606): Spain (Delgado de Torres, A, xix, 277).

* Apparently a nomen nudum.

Tephromyia grisea Mg. (Dipt. Sarcophagid) - Italy (A, viii, 484; Grasse, A, xii, 376): Algeria (Grasse, A, xii, 376).
Thyridanthrax sp. (Dipt. Bombyliid) - Iraq (A, xviii, 448; xix, 84).
Thyridanthrax fenestratus Fall. (Dipt. Bombyliid) - Spain (Delgado de Torres, A, xix, 277): Algeria (A, ix, 418).

Ectobius lapponicus L. (Blattid)

Brachygaster minuta Ol. (Hym. Evaniid) - Europe (Girault, A, ii, 310).

Elimaea punctifera Walk. (Tettigoniid)

Anastatus koebelei Ashm. (Hym. Eupelmid) - Hawaii (Swezey, A, xviii, 255).
Ufens elimaeae Timb. (Hym. Trichogrammid) - Hawaii (Swezey, A, xviii, 255).

Ellipsidion australe Sauss. (Blattid)

Agamerion metallica Gir. (Hym. Cleonymid) - Australia (A, vi, 387).
Cheiloneurus viridiscutum Gir. (Hym. Encyrtid) - Australia (A, vi, 387).
Mestocharomyia oophaga Dodd (Hym. Eulophid) - Australia (A, vi, 387).

Ellipsidion pellucidum Brunn. - See E. australe Sauss.

Euchorthippus pulvinatus F.W. (Acridid)

Acemya acuticornis Mg. (Dipt. Tachinid) - France (A, xxv, 705).

Gomphocerus sibiricus L. (Acridid)

Agria latifrons Fall. (Dipt. Sarcophagid) - Russia, Turkestan, Mongolia, Europe (A, xvii, 398).
Anastoechus sp. (Dipt. Bombyliid) - Russia (A, v, 197).
Blaesoxipha lineata Fall. (Dipt. Sarcophagid) - Russia (A, xvi, 295).
Blaesoxipha rossica Villen. (Dipt. Sarcophagid) - Russia (A, xx, 504).
Sarcophaga sp. (Dipt. Sarcophagid) - Russia (A, xi, 139).
Systoechus sulphureus Mikan (Dipt. Bombyliid) - Russia (A, xi, 139).

Gryllus abbreviatus Serv. - See Acheta assimilis F.

Gryllus assimilis F. - See Acheta assimilis F.

Hieroglyphus banian F. (Acridid)

Scelio sp. (Hym. Scelionid) - India (Ramakrishna Ayyar, A, xvi, 48; Ramakrishna Ayyar & Margabandu, xxiii, 209).
Scelio hieroglyphi Timb. (Hym. Scelionid) - India (Ramakrishna Ayyar, A, ix, 214).

Holochlora japonica Brunn. (Tettigoniid)

Anastatus koebelei Ashm. (Hym. Eupelmid) - Hawaii (Swezey, A, xviii, 255).
Ufens elimaeae Timb. (Hym. Trichogrammid) - Hawaii (Swezey, A, xviii, 255).

Holochlora nawae Mats. & Shir. (Tettigoniid)

Anastatus sp. (Hym. Eupelmid) - China (Chu & Hsia, A, xxiii, 622).

Leptynia hispanica Bol. (Phasmatid)

Thrixion halidayanum Rond. (Dipt. Tachinid) - Europe (Baer, A, ix, 61, 252).

Loboptera decipiens Germ. (Blattid)

Tetrastichus sp. (Hym. Eulophid) - France (Parker & Thompson, A, xvii, 285; Parker & Thompson, B, xvii, 101).

Zeuxevania splendidula A. Costa (Hym. Evaniid) - France (Parker & Thompson, A, xvii, 285).

Locusta australis Sauss. (Acridid)

Scelio australis Frogg. (Hym. Scelionid) - Australia (A, ii, 17).

Locusta migratoria L. (Acridid)

Acridomyia sacharovi Stack. (Dipt. Muscid) - C. Asia (A, xviii, 128; xix, 335): Russia (A, xviii, 128; xxiii, 633).

Agria latifrons Fall. (Dipt. Sarcophagid) - Europe, Mongolia, Siberia, Turkestan (A, xvii, 398).

Anastoechus baigacumensis Param. (Dipt. Bombyliid) - C. Asia (A, xxiv, 596).

Anastoechus nitidulus F. (Dipt. Bombyliid) - Russia (A, xiii, 70; xvii, 139).

Blaesoxipha erythrura Mg. (Dipt. Sarcophagid) - Russia (A, xiii, 70).

Blaesoxipha filipjevi Rohd. (Dipt. Sarcophagid) - Russia (A, xvii, 398; xviii, 98, 128): C. Asia (A, xix, 335).

Blaesoxipha filipjevi tertia Rohd. (Dipt. Sarcophagid) - Persia, Turkestan (A, xvii, 398).

Blaesoxipha grylloctona Lw. (Dipt. Sarcophagid) - Russia (A, xvii, 398; xviii, 128): C. Asia (A, xviii, 128; xix, 335): Turkestan (A, xvii, 398).

Blaesoxipha lineata Fall. (Dipt. Sarcophagid) - Russia (A, xiii, 70; 543; xvii, 139; xviii, 128): C. Asia (A, xviii, 128; xix, 335).

Blaesoxiphella orevicornis Villen. (Dipt. Sarcophagid) - Russia (A, xvii, 139).

Hylemya cilicrura Rond. (Dipt. Anthomyiid) - Russia (A, xix, 50).

Locustaevora migratoriae Rohd. (Dipt. Sarcophagid) - Turkestan (A, xvii, 398).

Megaselia aspera Schmitz (Dipt. Phorid) - Russia (A, xviii, 606).

Megaselia leucozona Schmitz (Dipt. Phorid) - Russia (A, xviii, 606).

Megaselia parvula Schmitz (Dipt. Phorid) - Russia (A, xviii, 606).

Oophagomyia plotnikovi Rohd. (Dipt. Sarcophagid) - Russia (A, xvii, 398).

Sarcophaga affinis Fall. (Dipt. Sarcophagid) - Europe (Baer, A, ix, 61, 252).

Sarcophaga haemorrhoidalis Fall. (Dipt. Sarcophagid) - Europe (Baer, A, ix, 61, 252).

Scelio sp. (Hym. Scelionid) - Russia (A, xiii, 70; xiv, 210).

Scelio fulvipes Först. (Hym. Scelionid) - Russia (Meier, A, xviii, 131).

Scelio nikolskyi Ogl. (Hym. Scelionid) - Russia (Meier, A, xviii, 131): Turkestan (A, xv, 461).

Scelio uvarovi Ogl. (Hym. Scelionid) - Russia (A, xvii, 139; Meier, xviii, 131): China (A, xxiii, 687).

Scelio zolotarevskyi Ferr. (Hym. Scelionid) - Madagascar (A, xxii, 8).

Stomorphina lunata F. (Dipt. Calliphorid) - Russia (A, xix, 564).

Systoechus sp. (Dipt. Bombyliid) - Russia (A, xiii, 543).

Systoechus autumnalis Pall. (Dipt. Bombyliid) - Russia (A, xiii, 70).

Wohlfahrtia trina Wd. (Dipt. Sarcophagid) - Russia (A, xiii, 70).

Locusta migratoria danica L. (Acridid)

Blaesoxipha lineata Fall. (Dipt. Sarcophagid) - Russia (A, ii, 53).

- Scelio bipartitus Kieff. (Hym. Scelionid) - Australia (A, ii, 17).
Scelio uvarovi Ogl. (Hym. Scelionid) - Ukraine (A, xv, 461).
Systoechus sp. (Dipt. Bombyliid) - Russia (A, ii, 53).

Locusta migratoria migratorioides R. & F. (Acridid)

- Blaesoxipha filipjevi Rohd. (Dipt. Sarcophagid) - Sudan (A, xxii, 76).
Blaesoxipha filipjevi aequatorialis Rohd. (Dipt. Sarcophagid) - Sierra Leone (A, xix, 627; xxi, 447).
Blaesoxipha lineata Fall. (Dipt. Sarcophagid) - Sudan (A, xxii, 76).
Sarcophaga furcadorsalis Rohd. (Dipt. Sarcophagid) - Sierra Leone (A, xix, 627; xxi, 447).
Scelio zolotarevskyi Ferr. (Hym. Scelionid) - Madagascar (A, xviii, 426).
Stomorhina lunata F. (Dipt. Calliphorid) - Belgian Congo (A, xxv, 10):
 S. Rhodesia (A, xxi, 672): Tanganyika (A, xx, 450).

Locusta migratoria rossica Uv. & Zol. (Acridid)

- Blaesoxipha lineata Fall. (Dipt. Sarcophagid) - Russia (A, xviii, 131).

Locustana pardalina Walk. (Acridid)

- Stomorhina lunata F. (Dipt. Calliphorid) - S. Africa (A, xviii, 529).
Systoechus albidus Lw. (Dipt. Bombyliid) - S. Africa (A, xviii, 529).
Wohlfahrtia brunnipalpis Macq. (Dipt. Sarcophagid) - S. Africa (A, vi, 357).
Wohlfahrtia euvittata Villen. (Dipt. Sarcophagid) - S. Africa (A, xviii, 529; xxi, 504; B, xviii, 157).

LOCUSTID sp.

- Pediobopsis locustivora Roh. (Hym. Eulophid) - India (Ramakrishna Ayyar & Margabandu, A, xxiii, 209).

Mantis sp. (Mantid)

- Podagrion sp. (Hym. Torymid) - India (Ramakrishna Ayyar, A, xvi, 48; Ramakrishna Ayyar & Margabandu, xxiii, 209).
Podagrion chinensis Ashm. (Hym. Torymid) - China (Chu & Hsia, A, xxiii, 622).
Podagrion crassiclava Gahan (Hym. Torymid) - U.S.A. (Gahan, A, x, 422).
Podagrion greeni Crwf. (Hym. Torymid) - Ceylon (Ramakrishna Ayyar, A, xiii, 645).
Podagrion indicus Gir. (Hym. Torymid) - India (Ramakrishna Ayyar, A, ix, 214).

Mantis prasina Serv. (Mantid)

- Podagrion fraternus Westw. (Hym. Torymid) - ? (A, v, 391).

Mantis religiosa L. (Mantid)

- Podagrion splendens Spin. (Hym. Torymid) - ? (Hoffmeyer, A, xix, 399): Europe (Girault, A, ii, 310).
Podagrion splendens rufiventre Gir. (Hym. Torymid) - ? (Hoffmeyer, A, xix, 399).
Riella manticida Kieff. (Hym. Scelionid) - Europe (Girault, A, ii, 310): France (A, viii, 162): ? (A, v, 391).

Melanoplus sp. (Acridid)

- Apheobantus mus O.S. (Dipt. Bombyliid) - N. America (A, ix, 418).
Sarcophaga falciformis Aldr. (Dipt. Sarcophagid) - U.S.A. (Knowlton & Janes, A, xix, 629).

- Sarcophaga haemorrhoidalis Mg. (Dipt. Sarcophagid) - U.S.A. (A, v, 72).
Sarcophaga hunteri Hough (Dipt. Sarcophagid) - U.S.A. (Knowlton & Janes, A, xix, 629).
Sarcophaga kellyi Aldr. (Dipt. Sarcophagid) - U.S.A. (A, vi, 545).
Scelio calopteni Riley (Hym. Scelionid) - Canada (Treherne & Buckell, A, xiii, 195).
Systoechus oreas O.S. (Dipt. Bombyliid) - N. America (A, ix, 418).

Melanoplus atlanis Riley - See M. mexicanus mexicanus Sauss.

Melanoplus differentialis Thos. (Acridid)

- Opsophyto opifera Coq. (Dipt. Sarcophagid) - ? (A, xiii, 258).
Sarcophaga haemorrhoidalis Fall. (Dipt. Sarcophagid) - U.S.A. (Knowlton & Janes, A, xix, 629).
Sarcophaga hunteri Hough (Dipt. Sarcophagid) - ? (A, xiii, 258).
Sarcophaga kellyi Aldr. (Dipt. Sarcophagid) - U.S.A. (A, iii, 81).
Sarcophaga sinuata Mg. (Dipt. Sarcophagid) - U.S.A. (Knowlton & Janes, A, xix, 629).

Melanoplus femur-rubrum DeG. (Acridid)

- Opsophyto opifera Coq. (Dipt. Sarcophagid) - U.S.A. (A, xiii, 258).
Sarcophaga aculeata Aldr. (Dipt. Sarcophagid) - U.S.A. (A, xxi, 253).

Melanoplus marginatus Scudd. (Acridid)

- Opsophyto opifera Coq. (Dipt. Sarcophagid) - ? (A, xiii, 258).

Melanoplus mexicanus mexicanus Sauss. (Acridid)

- Opsophyto opifera Coq. (Dipt. Sarcophagid) - ? (A, xiii, 258).
Sarcophaga atlanis Aldr. (Dipt. Sarcophagid) - U.S.A. (Knowlton & Janes, A, xix, 629).
Sarcophaga carmaria L. (Dipt. Sarcophagid) - Europe, America, Africa (Grasse, A, xii, 376).
Sarcophaga hunteri Hough (Dipt. Sarcophagid) - ? (A, xiii, 258).
Sarcophaga kellyi Aldr. (Dipt. Sarcophagid) - U.S.A. (A, xviii, 641; xx, 641).
Scelio calopteni Riley (Hym. Scelionid) - U.S.A. (A, xviii, 641).
Scelio luggeri Riley (Hym. Scelionid) - Canada (Treherne & Buckell, A, xiii, 195).

Melanoplus mexicanus devastator Scudd. (Acridid)

- Opsophyto opifera Coq. (Dipt. Sarcophagid) - U.S.A. (A, xiii, 258).

Melanoplus plumbeus Dodge - See M. femur-rubrum DeG.

Melanoplus spretus Walsh - See M. mexicanus mexicanus Sauss.

Metriopectera grisea F. - See Platycleis

Microcentrum sp. (Tettigoniid)

- Anastatus microcentri Gahan (Hym. Eupelmid) - U.S.A. (Gahan, A, x, 422).

Microcentrum rhobifolium Sauss. (Tettigoniid)

- Anastatus sp. (Hym. Eupelmid) - U.S.A. (A, iii, 653).

Neostylopyga rhombifolia Stoll (Blattid)

- Evania appendigaster L. (Hym. Evaniid) - Hawaii (Swezey, A, xviii, 255).
Evania sericea Cam. (Hym. Evaniid) - Hawaii (Swezey, A, xviii, 255).

Nomadacris septemfasciata Serv. (Acridid)

- Blaesoxipha sp. (Dipt. Sarcophagid) - N. Rhodesia (A, xxiii, 447): S. Africa (A, xxii, 707; xxiii, 504; xxv, 456).
Diploneura armipes Brues (Dipt. Phorid) - S. Rhodesia (A, xxii, 555; xxiii, 690).
Fannia canicularis L. (Dipt. Anthomyiid) - S. Rhodesia (A, xxiii, 690).
Muscina stabulans Fall. (Dipt. Muscid) - S. Rhodesia (A, xxiii, 690).
Puliciphora rhodesiana Schmitz (Dipt. Phorid) - S. Rhodesia (A, xxiii, 690; xxiv, 621).
Sarcophaga sp. (Dipt. Sarcophagid) - Mozambique (A, xxiv, 3): S. Africa (A, xxii, 707).
Sarcophaga beckeri Villen. (Dipt. Sarcophagid) - S. Rhodesia (A, xxiii, 690).
Sarcophaga exuberans Pand. (Dipt. Sarcophagid) - S. Rhodesia (A, xxiii, 690).
Sarcophaga nodosa Engel. (Dipt. Sarcophagid) - S. Rhodesia (A, xxiii, 690).
Sarcophaga villa Curran (Dipt. Sarcophagid) - S. Rhodesia (A, xxiii, 690).
Scelio sp. (Hym. Scelionid) - Mozambique (A, xxiv, 3): Nyasaland (A, xxiii, 503).
Scelio howardi Crw. (Hym. Scelionid) - S. Rhodesia (A, xxiii, 690): Tanganyika (A, xxiii, 667).
Stomorhina lunata F. (Dipt. Calliphorid) - Belgian Congo (A, xxv, 10): Mozambique (A, xxiv, 3): N. Rhodesia (A, xxiii, 447): S. Africa (A, xxiii, 504; xxiv, 443): S. Rhodesia (A, xxii, 555, 708; xxiv, 609): Tanganyika (A, xxiii, 667).
Wohlfahrtia euvittata Villen. (Dipt. Sarcophagid) - S. Africa (A, xxii, 707; xxiii, 504).

Notostaurus albicornis Ev. (Acridid)

- Blaesoxipha lineata Fall. (Dipt. Sarcophagid) - Russia (A, xvi, 431).
Systoechus autumnalis Pall. (Dipt. Bombyliid) - Russia (A, xiv, 611).

Oecanthus sp. (Gryllid)

- Cacellus oecanthi Riley (Hym. Scelionid) - U.S.A. (A, ii, 673).
Polynema bifasciatipenne Gir. (Hym. Mymarid) - U.S.A. (A, ii, 673).
Tetrastichus oecanthivorus compar Gahan (Hym. Eulophid) - U.S.A. (Gahan, A, xxi, 101).

Oecanthus californicus Sauss. (Gryllid)

- Macrorileya oecanthi Ashm. (Hym. Eurytomid) - U.S.A. (A, xviii, 538).

Oecanthus niveus DeG. (Gryllid)

- Aprostocetus sp. (Hym. Euleophid) - U.S.A. (A, xix, 318).
Cacellus oecanthi Riley (Hym. Scelionid) - U.S.A. (A, xix, 318).
Eupelmus sp. (Hym. Eupelmid) - U.S.A. (A, xix, 318).
Macrorileya oecanthi Ashm. (Hym. Eurytomid) - U.S.A. (A, xviii, 538; xix, 318).

Oecanthus pellucens Scop. (Gryllid)

- Archirileya inopinata Silv. (Hym. Eurytomid) - Italy (A, ix, 175).
Eurytoma sp. (Hym. Eurytomid) - Bulgaria (Tchortadzhiev, A, xiii, 601).
Eurytoma oophaga Silv. (Hym. Eurytomid) - Italy (A, ix, 175).
Eurytoma phaenacidis Mayr (Hym. Eurytomid) - Italy (A, ix, 175).
Tetrastichus dispar Masi (Hym. Eulophid) - Italy (A, ix, 175).
Tetrastichus ovivorax Silv. (Hym. Eulophid) - Italy (A, ix, 175).
Tetrastichus percaudatus Silv. (Hym. Eulophid) - Italy (A, ix, 175).

Oedaleus decorus Germ. (Acridid)

- Blaesoxipha sp. (Dipt. Sarcophagid) - Russia (A, xxiv, 594).
Blaesoxipha lineata Fall. (Dipt. Sarcophagid) - Russia (A, xiv, 107).

Oedipoda caerulescens L. (Acridid)

- Blaesoxipha sp. (Dipt. Sarcophagid) - Montenegro (A, xiii, 98).

Omocestus haemorrhoidalis Charp. (Acridid)

- Blaesoxipha rossica Villen. (Dipt. Sarcophagid) - Russia (A, xvi, 295).
Blaesoxiphella brevicornis Villen. (Dipt. Sarcophagid) - Russia (A, xvii, 398).

Orchelimum vulgare Harr. (Tettigonid)

- Tumidiscapus orchelimumis Gahan (Hym. Aphelinid) - U.S.A. (A, xviii, 390; Gahan, xxi, 101).

Orophus rhombifolius Sauss. - See MicrocentrumOxya sp. (Acridid)

- Tumidiscapus oophagus Gir. (Hym. Aphelinid) - India (Ramakrishna Ayyar, A, xvi, 48).

Oxya chinensis Thnb. (Acridid)

- Scelio pembertoni Timb. (Hym. Scelionid) - Hawaii (A, xxiii, 342; xxiv, 379): Malaya to Hawaii (A, xxii, 64).

Oxya velox F. (Acridid)

- Anastatus sp. (Hym. Eupelmid) - India (Ramakrishna Ayyar, A, xiii, 645; Ramakrishna Ayyar, xvi, 48; Ramakrishna Ayyar & Margabandu, xxiii, 209).
Anastatus coimbatorensis Gir. (Hym. Eupelmid) - India (Ramakrishna Ayyar, A, ix, 214; x, 152).
Aximopsis ovi Gir. (Hym. Eurytomid) - India (Ramakrishna Ayyar, A, ix, 214).
Scelio sp. (Hym. Scelionid) - India (Ramakrishna Ayyar, A, xvi, 48; Ramakrishna Ayyar & Margabandu, xxiii, 209).
Scelio oxyae Timb. (Hym. Scelionid) - India (Ramakrishna Ayyar, A, ix, 214; x, 152).
Scelio pembertoni Timb. (Hym. Scelionid) - Hawaii (A, xxi, 347, 493): Malaya (A, xxi, 134).
Scelio serdangensis Timb. (Hym. Scelionid) - Hawaii (A, xxi, 347): Malaya (A, xxi, 134).
Tumidiscapus oophagus Gir. (Hym. Aphelinid) - India (A, v, 531; Ramakrishna Ayyar, ix, 214; x, 152; Ramakrishna Ayyar, xiii, 645; Ramakrishna Ayyar & Margabandu, xxiii, 209).

Pachytylus migratorius L. : See Locusta migratoria L.

Paracryptera microptera F.W. (Acridid)

Blaesoxipha asiatica Rohd. (Dipt. Sarcophagid) - Russia (A, xvii, 596).
Systoechus autumnalis Pall. (Dipt. Bombyliid) - Russia (A, xiv, 611).

Paracryptera microptera microptera F.W. (Acridid)

Systoechus sp. (Dipt. Bombyliid) - Russia (A, xxii, 205).

Patanga succincta L. (Acridid)

Blaesoxipha kaestneri Bar. (Dipt. Sarcophagid) - Malaya (A, xxi, 676;
 Baranoff, xxii, 555).

Peranabrus scabricollis Thomas (Tettigoniid)

Sparasion pilosum Ashm. (Hym. Scelionid) - U.S.A. (A, v, 224).

Periplaneta americana L. (Blattid)

Evania appendigaster L. (Hym. Evaniid) - Hawaii (Swezey, A, xviii, 255); Palestine (B, xxi, 252); Jamaica (A, xiv, 147).
Evania punctata Brul. (Hym. Evaniid) - Europe (Fahringer, A, x, 497);
 Palestine (B, xxi, 252).
Evania sericea Cam. (Hym. Evaniid) - Hawaii (Swezey, A, xviii, 255).
Pteromalus sp. (Hym. Pteromalid) - Europe (Girault, A, ii, 310).
Tetrastichus hagenowii Ratz. (Hym. Eulophid) - Palestine (B, xxi, 252).
Tetrastichus periplanetae Crwf. (Hym. Eulophid) - Jamaica (A, xiv, 147).

Periplaneta australasiae F. (Blattid)

Evania appendigaster L. (Hym. Evaniid) - Hawaii (Swezey, A, xviii, 255);
 ? (Girault, A, ii, 310).
Evania sericea Cam. (Hym. Evaniid) - Hawaii (Swezey, A, xviii, 255).
Tetrastichus australasiae Gahan (Hym. Eulophid) - Dutch E. Indies
 (A, xi, 151).

Periplaneta orientalis L. - See BlattaPezotettix giornae Rossi (Acridid)

Acemya acuticornis Mg. (Dipt. Tachinid) - Italy (A, xxv, 705).

Pezotettix pedestris L. - See Podisma* Phyllodromia sp. (Blattid)

Dicarnosis alfieri Merc. (Hym. Encyrtid) - Egypt (Mercet, A, xviii, 714).

Phyllodromia germanica L. - See BlattellaPlatycleis grisea F. (Tettigoniid)

Apegus kerteszi Kieff. (Hym. Scelionid) - Italy (A, xxiii, 128).
Eupelmella platycleides Sarra (Hym. Eupelmid) - Italy (A, xxiii, 128).

Podisma alpina Koll. (Acridid)

Blaesoxipha grylloctona Lw. (Dipt. Sarcophagid) - Europe (Baer, A, ix, 61, 252).

Podisma pedestris L. (Acridid)

Blaesoxipha asiatica Rohd. (Dipt. Sarcophagid) - Russia (A, xviii, 398).

* A genus now much divided.

Pycnoscelus surinamensis L. (Blattid)Sarcophaga lambens Wied. (Dipt. Sarcophagid) - Haiti (A, xv, 267).Ramburiella turcomana F.W. (Acridid)Anthrax monachus Sack. (Dipt. Bombyliid) - C. Asia (A, xxiv, 595).Anthrax oophagus Param. (Dipt. Bombyliid) - C. Asia (A, xxiv, 595).Callostoma desertorum Lw. (Dipt. Bombyliid) - C. Asia (A, xxiv, 595).Romalea microptera Beauv. (Acridid)Sarcophaga lambens Wied. (Dipt. Sarcophagid) - U.S.A. (Aldrich, A, xvi, 82).Saga pedo Beauv. (Tettigoniid)Sarcophaga calliste B.B. (Dipt. Sarcophagid) - Europe (Baer, A, ix, 61, 252).Saga serrata F. - See Saga pedo Beauv.Scapteriscus vicinus Scudd. (Gryllid).Sarcophaga lambens Wied. (Dipt. Sarcophagid) - Porto Rico (Aldrich, A, xvi, 82).Schistocerca sp. (Acridid)Brachicoma acridiorum Wey. (Dipt. Sarcophagid) - Argentina (A, viii, 475).Sarcophaga clotho Brèthes (Dipt. Sarcophagid) - Argentina (A, viii, 299).Sarcophaga lubera Brèthes (Dipt. Sarcophagid) - Argentina (A, viii, 299).Scelio venezuelensis Marsh. (Hym. Scelionid) - Br. Guiana (A, vii, 491).Schistocerca americana Dru. (Acridid)Sarcophaga lambens Wied. (Dipt. Sarcophagid) - U.S.A. (Aldrich, A, xvi, 82).Schistocerca cancellata Serv. (Acridid)Brachicoma acridiorum Wey. (Dipt. Tachinid) - Argentina (A, xvi, 82).Hylemya cilicrura Rond. (Dipt. Anthomyid) - Argentina (A, xxii, 49, 351).Oedematocera dampfi Aldr. (Dipt. Tachinid) - C. America (A, xvi, 82): Guatemala (A, xv, 251): Mexico (A, xv, 251; xvi, 82): Tropical America (A, xvi, 506).Oedematocera gilvipes Coq. (Dipt. Tachinid) - Mexico (A, xv, 527).Sarcophaga sp. (Dipt. Sarcophagid) - Argentina (A, xxii, 49; xxv, 114).Sarcophaga argentina Brèthes (Dipt. Sarcophagid) - Argentina (A, viii, 515).Sarcophaga barbata Thoms. (Dipt. Sarcophagid) - Argentina (A, xxii, 351).Sarcophaga caridei Brèthes (Dipt. Sarcophagid) - Argentina (A, v, 505; xxii, 351): Tropical America (A, xvi, 82): Mexico (A, xv, 527).Sarcophaga clotho Brèthes (Dipt. Sarcophagid) - Brazil (A, xiii, 408).Sarcophaga haemorrhoidalis Fall. (Dipt. Sarcophagid) - S. America, Algeria (Grasse, A, xii, 376).Sarcophaga lambens Wied. (Dipt. Sarcophagid) - Argentina (A, xxii, 351): Mexico (A, xv, 527).Sarcophaga lubera Brèthes (Dipt. Sarcophagid) - Brazil (A, xiii, 408).Sarcophaga varia Walk. (Dipt. Sarcophagid) - Argentina (A, xxii, 351).Scelio fuscipennis Ashm. (Hym. Scelionid) - Mexico (A, xvii, 613).

Schistocerca gregaria Forsk. (Acridid)

- Agria latifrons Fall. (Dipt. Sarcophagid) - Algeria (A, xix, 683).
Anthomyia sp. (Dipt. Anthomyiid) - Oran (A, iv, 351).
Blaesoxipha filipjevi Rohd. (Dipt. Sarcophagid) - Sudan (A, xxii, 76).
Blaesoxipha filipjevi aequatorialis Rohd. (Dipt. Sarcophagid) - Tanganyika (A, xix, 27).
Blaesoxipha filipjevi tertia Rohd. (Dipt. Sarcophagid) - Russia (A, xx, 504; xxiii, 582).
Blaesoxipha laticornis Mg. (Dipt. Sarcophagid) - Russia (A, xx, 504; xxiii, 582).
Blaesoxipha lineata Fall. (Dipt. Sarcophagid) - Russia (A, xxiii, 582); Sudan (A, xxii, 76).
Blaesoxipha monticola Rohd. (Dipt. Sarcophagid) - Russia (A, xx, 94, 504; xxiii, 582).
Blaesoxipha potanini Rohd. (Dipt. Sarcophagid) - Russia (A, xx, 504).
Chrysopilus nubeculus Fall. (Dipt. Leptid) - N. Africa (Grasse, A, xii, 376).
Fannia canicularis L. (Dipt. Anthomyiid) - Guatemala (A, ix, 587) - Morocco (A, xx, 72).
Hylemya cilicrura Rond. (Dipt. Anthomyiid) - Palestine (A, xviii, 184).
Lomatia hamifera Becker (Dipt. Bombyliid) - Morocco (A, xx, 72).
Megaselia scalaris Lw. (Dipt. Phorid) - Guatemala (A, ix, 587).
Muscina stabulans Fall. (Dipt. Muscid) - Guatemala (A, ix, 587); Morocco (A, xx, 72).
Myopa picta Panz. (Dipt. Conopid) - Morocco (A, xx, 72).
Ophagomyia plotnikovi Rohd. (Dipt. Sarcophagid) - Russia (A, xx, 504).
Phaonia trimaculata Bouché (Dipt. Anthomyiid) - Algeria (A, xix, 683).
Sarcophaga sp. (Dipt. Sarcophagid) - Eritrea (A, xix, 187, 733); Sudan (A, ix, 503).
Sarcophaga destructor Mall. (Dipt. Sarcophagid) - Sudan (A, xxii, 76).
Sarcophaga haemorrhoidalis Fall. (Dipt. Sarcophagid) - S. America, Algeria (Grasse, A, xii, 376); Morocco (A, xx, 72).
Stomorhina lunata F. (Dipt. Calliphorid) - Europe (Baer, A, ix, 61, 252); Russia (A, xx, 504); Palestine (A, xviii, 184; xx, 159); Algeria (A, iv, 351; xix, 683); Eritrea (A, xix, 733); Kenya (A, xxi, 562); Morocco (A, xx, 72); Sudan (A, ix, 503).
Thyreidanthrax fenestratus Fall. (Dipt. Bombyliid) - Oran (A, iv, 351).
Wohlfahrtia bella Macq. (Dipt. Sarcophagid) - Algeria (A, xix, 683).
Wohlfahrtia euvittata Villen. (Dipt. Sarcophagid) - S. Africa (A, xxii, 708; xxiii, 504).
Wohlfahrtia trina Wd. (Dipt. Sarcophagid) - Russia (A, xx, 94; xxiii, 582).

Schistocerca paranensis Burm. - See S. cancellata Serv.

Schistocerca peregrina Ol. - See S. gregaria Forsk.

Scudderia furcata Brunn. (Tettigoniid)

Anastatus sp. (Hym. Eupelmid) - U.S.A. (A, iii, 653).

Sexava sp. (Tettigoniid)

Doirania leefmansi Wtstn. (Hym. Trichogrammid) - Dutch E. Indies (Leefmans, A, xviii, 456); New Hanover (A, xxv, 741).

Leefmansia bicolor Wtstn. (Hym. Encyrtid) - Dutch E. Indies (Leefmans, A, xviii, 456); New Hanover (A, xxv, 741).

Mymarid sp. (Hym.) - New Hanover (A, xxv, 741).

Ootetrastichus dubius Wtstn. (Hym. Eulophid) - Dutch E. Indies (Leefmans, A, xviii, 456).

Sexava novae-guineae Brancsik (Tettigoniid)

Doirania leefmansi Wtstn. (Hym. Trichogrammid) - New Guinea (A, xxiv, 202).

Eulophid sp. (Hym.) - New Guinea (A, xxiv, 202).

Leefmansia bicolor Wtstn. (Hym. Encyrtid) - New Guinea (A, xxiv, 201).

Mymarid sp. (Hym.) - New Guinea (A, xxiv, 202).

Prosapegus atrellus Dodd (Hym. Scelionid) - New Guinea (A, xxiv, 202).

Scelionid sp. (Hym.) - New Guinea (A, xxiv, 202).

Sexava nubila Stal. (Tettigoniid)

Doirania leefmansi Wtstn. (Hym. Trichogrammid) - New Guinea (A, xxiv, 202).

Eulophid sp. (Hym.) - New Guinea (A, xxiv, 202).

Leefmansia bicolor Wtstn. (Hym. Encyrtid) - New Guinea (A, xxiv, 201).

Mymarid sp. (Hym.) - New Guinea (A, xxiv, 202).

Prosapegus atrellus Dodd (Hym. Scelionid) - New Guinea (A, xxiv, 202).

Scelionid sp. (Hym.) - New Guinea (A, xxiv, 202).

Stagomantis carolina Johan. (Mantid)

Helicobia rapax Walk. (Dipt. Sarcophagid) - U.S.A. (A, ii, 423).

Sarcophaga flavipes Aldr (Dipt. Sarcophagid) - U.S.A. (B, xiii, 30).

Stauroderus sp. (Acridid)

Sarcophaga striata F. (Dipt. Sarcophagid) - France (A, xxiii, 391).

Stauroderus apricarius L. - See Chorthippus

Stauroderus bicolor Charp. - See Chorthippus

Stauroderus morio F. - See S. scalaris F.W.

Stauroderus scalaris F.W. (Acridid)

Blaesoxiphella brevicornis Villen. (Dipt. Sarcophagid) - Russia (A, xvii, 398).

Sarcophaga sp. (Dipt. Sarcophagid) - Siberia (A, xi, 139).

Scelio vulgaris Kieff (Hym. Scelionid) - Siberia (A, xxv, 62).

Systoechus sulphureus Mikan (Dipt. Bombyliid) - Siberia (A, xi, 139).

Stenobothrus sp. (Acridid)

Acemya calloti Seguy (Dipt. Tachinid) - France (A, xxv, 9).

Stenobothrus apricarius L. - See Chorthippus

Stenobothrus morio F. - See Chorthippus

Stenobothrus morio auct. - See Stauroderus scalaris F.W.

Stenobothrus nigromaculatus H.-S. (Acridid)

Siphonella palposa Fall. (Dipt. Chloropid) - Siberia (A, xi, 139).

Stenobothrus parallelus Zett. - See Chorthippus

Stethophyma flavicosta Fisch. - See Pararcyptera microptera F.W.

Stylopyga - See Blatta

Tetrix bipunctata L. (Acridid)

Hypostena setiventris Macq. (Dipt. Tachinid) - Europe (Baer, A, ix, 61, 252).

Tettigonia albifrons F. - See Decticus

Torbia viridissima Brunn. (Tettigoniid)

Anastatus aristotelea Gir. (Hym. Eupelmid) - Australia (A, vi, 387).

Valanga nigricornis Burm. (Acridid)

Blaesoxipha valangae Aldr. (Dipt. Sarcophagid) - Java (A, xx, 568).

Scelio sp. (Hym. Scelionid) - Dutch E. Indies (A, v, 442).

Scelio javanica Roepke (Hym. Scelionid) - Dutch E. Indies (A, iv, 87; v, 84): Java (A, iv, 480).

Xanthippus neglectus Thom. - See Cratypedes neglectus Thom.

Xiphidion sp. - See Conocephalus

Xiphidion fuscum F. - See Conocephalus saltator Sauss.

Xiphidion longipennis Haan - See Conocephalus

Xiphidion varipenne Swez. - See Conocephalus saltator Sauss.

Zonocerus elegans Thnbg. (Acridid)

Sarcophaga sp. (Dipt. Sarcophagid) - S. Africa (A, xiii, 113).

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P S O C O P T E R A

(N.B. Where the original paper has been consulted, the author's name is given in the list of references).

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Atropos divinatorius Müller - See Liposcelis

Caecilius flavidus Stephens

Alaptus minimus Walk. (Hym. Mymarid) - Switzerland (A, xiv, 561).

Graphopsocus cruciatus L.

Alaptus fuscus Walk. (Hym. Mymarid) - Europe (Girault, A, ii, 310).

Alaptus minimus Walk. (Hym. Mymarid) - Europe (Girault, A, ii, 310).

Liposcelis divinatorius Müller

Alaptus globosicornis Gir. (Hym. Mymarid) - Hawaii (Swezey, A, xvii, 255).

Stenopsocus cruciatus L. - See Graphopsocus

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SIPHONAPTERA

(N.B. Where the original paper has been consulted, the author's name is given in the list of references).

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Ceratophyllus wickhami Baker

Bairamlia fuscipes Wtstn. (Hym. Miscogasterid) - England (B, xviii, 222). •

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T H Y S A N O P T E R A ---

(N.B. Where the original paper has been consulted, the author's name is given in the list of references).

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Cryptothrips floridensis Wats. - See Liothrips

Frankliniella occidentalis Perg.

Thripoctenus americensis Gir. (Hym. Eulophid) - Canada (A, xi, 460).

Frankliniella robusta Uzel - See Kakothrips pisivorus Westw.

Frankliniella tritici Fitch

Thripoctenus russelli Crwf. (Hym. Eulophid) - England (A, ii, 488).

Heliothrips fasciatus Perg. - See Hercothrips

Heliothrips haemorrhoidalis Bouché

Megaphragma mymaripenne Timb. (Hym. Trichogrammid) - Hawaii (A, xix, 471; Dozier, xx, 353).

Heliothrips rubrocinctus Giard - See Selenothrips

Hercothrips fasciatus Perg.

Camptoptera pulla Gir. (Hym. Mymarid) - N. America (A, iv, 116).

Thripoctenus russelli Crwf. (Hym. Eulophid) - U.S.A. (A, xxi, 591; xxiii, 406).

Kakothrips pisivorus Westw.

Thripoctenus sp. (Hym. Eulophid) - Switzerland (A, xxiv, 291).

Thripoctenus brui Vuil. (Hym. Eulophid) - Germany (A, xxiv, 813): ? (A, ii, 488).

Thripoctenus kutteri Ferr. (Hym. Eulophid) - Switzerland (A, xxv, 2).

Liothrips floridensis Wats.

Tetrastichus sp. (Hym. Eulophid) - U.S.A. (A, x, 463; xii, 333).

Liothrips oleae Costa

Adelgimyza tripidiperda Del Guer. (Dipt. Cecidomyiid) - Italy (A, viii, 160).

Tetrastichus gentilei Del Guer. (Hym. Eulophid) - Italy (A, xix, 300, 622; xxiii, 52): ? (A, ii, 488).

Liothrips urichi Karny

Tetrastichus thripophonus Wtstn. (Hym. Eulophid) - Trinidad (A, xvi, 602; xviii, 616).

Megalothrips spinosus Hood

Thripoctenus nubilipennis Williams (Hym. Eulophid) - U.S.A. (A, iv, 263).

Microthrips sp.

Megaphragma mymaripenne Timb. (Hym. Trichogrammid) -- Haiti (Dozier, A, xx, 353).

Phloeothrips oleae Costa .. See LiothripsRetithrips aegyptiacus Marchal

Thripoctenus sp. (Hym. Eulophid) .. Tanganyika (A, xxi, 444).

Rhipiphorothrips cruentatus Hood

Thripoctenus maculatus Wtstn. (Hym. Eulophid) .. India (Ramakrishna Ayyar, A, xxii, 380).

Selenothrips rubrocinctus Giard

Baryconus sp. (Hym. Scelionid) .. Brazil (A, x, 614).

Dasyscapus parvipennis Gahan (Hym. Eulophid) .. Porto Rico (A, xxv, 414):
Trinidad (A, xxv, 17): Trinidad to Porto Rico (Dohanian, A, xxv, 616):
Gold Coast (A, xix, 377; xxiv, 304).

Taeniothrips sp.

Thripoctenus brui Vuil. (Hym. Eulophid) -- Japan (A, xxi, 358).

Taeniothrips inconsequens Uzel

Thripoctenus russelli Crwf. (Hym. Eulophid) .. U.S.A. (Foster & Jones, A, iii, 461).

Taeniothrips longistylus Karny

Thripoctenus vinctus Gahan (Hym. Eulophid) .. Philippines (Gahan, A, xxi, 101; xxiii, 406).

Taeniothrips pyri Daniel - See T. inconsequens UzelTaeniothrips simplex Morison

Thripoctenus russelli Crwf. (Hym. Eulophid) -- U.S.A. (A, xxiv, 249).

Thrips sp.

Thripoctenus bicoloratus Ishii (Hym. Eulophid) .. Japan (A, xxi, 358).

Thrips tabaci Lind.

Dasyscapus parvipennis Gahan (Hym. Eulophid) .. Java (A, xv, 395; xix, 377; xxiv, 304): Trinidad to Porto Rico (Dohanian, A, xxv, 616).

Thripoctenus brui Vuil. (Hym. Eulophid) .. Japan (A, xxi, 358): Java (A, xii, 67; xxi, 103): San Domingo (A, xvii, 26).

Thripoctenus russelli Crwf. (Hym. Eulophid) .. England (A, ii, 488): U.S.A. to Hawaii (A, xxiii, 406).

HOST SYNONYMY NOT SHOWN IN THE TEXT

Names in brackets do not appear in the text of the Catalogue with lists of parasites but are used in one or more of the sources from which the Catalogue has been compiled (Review of Applied Entomology or original papers).

NEUROPTERA

Chrysopa carnea Stern. = (C. vulgaris Schneider)
Chrysopa oculata Say = (C. albicornis Fitch)
Chrysopa plorabunda Fitch = (C. californica Coq.)
Kimminsia betulina Strom. = (Boriomyia nervosa F.; Hemerobius nervosus F.)
Sialis lutaria L. = (Semblis lutarius L.)

ODONATA

Aeshna = (Aeschna)
Agrion = (Calopteryx)

ORTHOPTERA

Acheta assimilis F. = (Gryllus assimilis F.; G. abbreviatus Serv.)
Anacridium aegyptium L. = (Acridium aegyptium L.)
Angaracris barabensis Pall. = (Bryodema barabensis Pall.)
Blatta = (Stylopyga)
Blatta orientalis L. = (Periplaneta orientalis L.)
Blatella germanica L. = (Blatta germanica L.; Phyllodromia germanica L.)
Calliptamus italicus L. = (Caloptenus italicus L.)
Chortoicetes jungi Branc. = (Austroicetes jungi Branc.)
Conocephalus sp. = (Xiphidion sp.)
Conocephalus saltator Sauss. = (Xiphidion fuscum F.; X. varipenne Swez.)
Conocephalus longipennis Haan = (Xiphidion longipennis Haan)
Cratypedes neglectus Thom. = (Xanthippus neglectus Thom.)
Decticus albifrons F. = (Tettigonia albifrons F.)
Ectobius lapponicus L. = (Blatta lapponicus L.)
Ellipsidion australe Sauss. = (E. pellucidum Brunn.)
Locusta migratoria L. = (Pachytylus migratorius L.)
Melanoplus femur-rubrum DeG. = (M. plumbeus Dodge)
Melanoplus mexicanus mexicanus Sauss. = (M. atlanis Riley; M. spretus Walsh;
Calliptamus spretus Walsh)
Microcentrum rhombifolium Sauss. = (Orophus rhombifolius Sauss.)
Notostaurus albicornis Ev. = (Dociostaurus albicornis Ev.)
Pararcyptera microptera F.W. = (Arcyptera flavicosta F.W.; A. microptera F.W.:
Stethophyma flavicosta Fisch.)
Pararcyptera microptera microptera F.W. = (Arcyptera microptera microptera F.W.)
Periplaneta americana L. = (Blatta americana L.)
Platycleis grisea F. = (Metrioptera grisea F.)
Podisma pedestris L. = (Pezotettix pedestris L.)
Romalea microptera Beauv. = (Dictyophorus reticulatus Thnb.)
Saga pedo Beauv. = (Saga serrata F.)
Schistocerca cancellata Serv. = (S. paranensis Burm.)

Schistocerca gregaria Forsk. = (S. peregrina Ol.)

Valanga nigricornis Burm. = (Acridium melanocorne Serv.; A. nigricornis Burm.;
Cyrtacanthacris melanocornis Serv.; C. nigricornis
Burm.)

PSOCOPTERA

Graphopsocus cruciatus L. = (Stenopsocus cruciatus L.)

Liposcelis divinatorius Müller = (Atropos divinatorius Müller)

THYSANOPTERA

Hercothrips fasciatus Perg. = (Heliothrips fasciatus Perg.)

Kakothrips pisivorus Westw. = (Frankliniella robusta Uzel)

Liothrips floridensis Wats. = (Cryptothrips floridensis Wats.)

Liothrips oleae Costa = (Phloeothrips oleae Costa)

Selenothrips rubrocinctus Giard = (Heliothrips rubrocinctus Giard)

Taeniothrips inconsequens Uzel = (T. pyri Daniel)

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INDEX OF PARASITES OF THE NEUROPTERA, ODONATA, ORTHOPTERA, PSOCOPTERA,
SIPHONAPTERA AND THYSANOPTERA

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* Believed to refer to P. mantis Ashm., which is sometimes reared from Tenodera chinensis and other Mantids - hence chinensis is a confusion of names.

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(leucophaeus Wied.) = S. gradatus Wied.

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